Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2018-09-20-07** **Date: 22-09-18**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads and Drains at Ramachandrapura in ward No.10(Doddabommasandra), Vidyaranyapura Sub Division.
Agency	:	Sri.N.M Shivakumar, #7, 2nd Block, Juganahalli, Rajajinagara, Bangalore-560010
Customer's Reference	:	BBMP/EE/BTP/WO/126/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	20-09-18
Sample ID No	:	2018-09-20-07 /01
Sample Type	:	ACC 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	21-09-18
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	1.41	–
2	Finess by Air permeablity method (m^2/kg,Min)	298.6	225m^2/kg, Min
3	Density (gm/cc)	3.12	–
4	Standard Consistency (%)	29.0%	Not specified
5	Initial Setting time	155 minutes	Not less than 30 minutes
6	Final Setting time	265 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.5mm	Not more than 10 mm

Note:

The results pertain to the samples received and tested.
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Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore-91

23/10/18

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Authorized Signatory
Quality Manager

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2018-09-20-07** **Date: 19-10-18**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads and Drains at Ramachandrapura in ward No.10(Doddabommasandra), Vidyaranyapura Sub Division.
Agency	:	Sri.N.M Shivakumar, #7, 2nd Block, Juganahalli, Rajajinagara, Bangalore-560010
Customer's Reference	:	BBMP/EE/BTP/WO/126/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	20-09-18
Sample ID No	:	2018-09-20-07 /01
Sample Type	:	ACC 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6
Date of test	:	21-09-18
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	28.5N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.5N/mm^2	Not less than 37 N/mm^2
3	28 Days	58.5N/mm^2	Not less than 53 N/mm^2

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Quality Manager

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2018-09-20-07** **Date: 22-09-18**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads and Drains at Ramachandrapura in ward No.10(Doddabommasandra), Vidyaranyapura Sub Division.
Agency	:	Sri.N.M Shivakumar, #7, 2nd Block, Juganahalli, Rajajinagara, Bangalore-560010
Customer's Reference	:	BBMP/EE/BTP/WO/126/2018-19
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	20-09-18
Sample ID No	:	2018-09-20-07 /02(a)
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	20-09-18

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	248	248	1.7	98.3	90-100
3	20 mm	7344	7592	50.6	49.4	30-70
4	10 mm	4735	12327	82.2	17.8	10-35
5	4.75 mm	2311	14638	97.6	2.4	0-5
6	Pan	362	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2018-09-20-07** **Date: 22-09-18**

Sample ID No : 2018-09-20-07 /02(a)

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	11.9	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	12.3	
3	Specific Gravity	2.67	–
4	Bulk Density(Loose) (Kg/l)	1.42	–
5	Bulk Density(Compacted) (Kg/l)	1.48	–
6	Water Absorption(%)	0.23	–

Note:
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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2018-09-20-07** **Date: 22-09-18**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads and Drains at Ramachandrapura in ward No.10(Doddabommasandra), Vidyaranyapura Sub Division.
Agency	:	Sri.N.M Shivakumar, #7, 2nd Block, Juganahalli, Rajajinagara, Bangalore-560010
Customer Reference	:	BBMP/EE/BTP/WO/126/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	20-09-18
Sample ID No	:	2018-09-20-07 /02(b)
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	20-09-18

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	188	188	3.8	96.2	90-100
3	10 mm	2411	2599	52.0	48.0	25-55
4	4.75 mm	2148	4747	94.9	5.1	0-10
5	Pan	253	5000	100	0	-

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TEST REPORT ON COARSE AGGREGATES

Lab ID : CP-2018-09-20-07 Date: 22-09-18

Sample ID No : 2018-09-20-07 /02(b)

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	10.4	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	11.8	
3	Specific Gravity	2.63	–
4	Bulk Density(Loose) (Kg/l)	1.46	–
5	Bulk Density(Compacted) (Kg/l)	1.52	–
6	Water Absorption(%)	0.21	–
7	Aggregate crushing Value(%)	23.7	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	22.5	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

Note:

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TEST REPORT OF FINE AGGREGATE

Lab ID	:	**CP-2018-09-20-07**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads and Drains at Ramachandrapura in ward No.10(Doddabommasandra), Vidyaranyapura Sub Division.
Agency	:	Sri.N.M Shivakumar, #7, 2nd Block, Juganahalli, Rajajinagara, Bangalore-560010
Customer's Reference	:	BBMP/EE/BTP/WO/126/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	20-09-18
Sample ID No	:	2018-09-20-07 /03
Sample Type	:	Fine Aggregate
Reference to BIS codes	:	IS 383 : 2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1, 3) RA2012 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
Date of test	:	20-09-18
Total weight taken	:	1000 grams

Date: 22-09-18

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	23	23	2.3	97.7	90-100	90-100	90-100	95-100
3	2.36 mm	107	130	13.0	87.0	60-95	75-100	85-100	95-100
4	1.18 mm	170	300	30.0	70.0	30-70	55-90	75-100	90-100
5	600 micron	225	525	52.5	47.5	15-34	35-59	60-79	80-100
6	300 micron	240	765	76.5	23.5	5-20	8-30	12-40	15-50
7	150 micron	170	935	93.5	6.5	0-10	0-10	0-10	0-15
8	Pan	65	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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TEST REPORT OF FINE AGGREGATE

Job ID : CP-2018-09-20-07

Date: 22-09-18

Sample ID No : 2018-09-20-07 /03

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.53	–
2	Specific Gravity	2.57	–
3	Material finer than 75 micron(%)	4.8	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-09-27-01** **Date: 03/10/2018**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to roads and Drains at Ramachandrapura in ward No.10(Doddabommasandra), Vidyaranyapura Sub Division.

Agency : Sri.N.M Shivakumar, #7, 2nd Block, Juganahalli, Rajajinagara, Bangalore-560010

Customer's Reference : BBMP/EE/BTP/WO/126/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 27-09-18

Sample ID No : 2018-09-27-01 /01

Customer ID : M20 Concrete (RMC)

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 02/10/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M20 Concrete (RMC)	M20	25/09/2018	02/10/2018	150.11 X 150.29 X 150.43	22560	8.180	416.9	18.4	18.7
2	M20 Concrete (RMC)	M20	25/09/2018	02/10/2018	151.90 X 149.26 X 150.61	22672	8.203	424.6	18.9	
3	M20 Concrete (RMC)	M20	25/09/2018	02/10/2018	149.58 X 151.87 X 149.95	22717	8.194	433.9	18.9	

Note:

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2018-09-27-01 Date: 23/10/2018

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to roads and Drains at Ramachandrapura in ward No.19(Doddakommasandra), Vidyaranyapura Sub Division.

Agency : Sri.N.M Shivakumar, #7, 2nd Block, Jaganahalli, Rajajinagara, Bangalore-560010

Customer's Reference : BBMP/EE/BTP/WO/126/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 27-09-18

Sample ID No : 2018-09-27-01 /02

Customer ID : M20 Concrete (RMC)

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 23/10/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M20 Concrete (RMC)	M20	25/09/2018	23/10/2018	150.64 X 151.43 X 150.88	22812	8.412	520.0	23.0	22.9
2	M20 Concrete (RMC)	M20	25/09/2018	23/10/2018	151.51 X 151.04 X 150.02	22884	8.257	506.0	22.4	
3	M20 Concrete (RMC)	M20	25/09/2018	23/10/2018	150.93 X 149.03 X 151.51	22493	8.084	521.8	23.3	

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-09-27-01**

Date: 03/10/2018

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to roads and Drains at Ramachandrapura in ward No.10(Doddabommasandra), Vidyaranyapura Sub Division.

Agency : Sri.N.M Shivakumar, #7, 2nd Block, Juganahalli, Rajajinagara, Bangalore-560010

Customer's Reference : BBMP/EE/BTP/WO/126/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 27-09-18

Sample ID No : 2018-09-27-01 /01

Customer ID : M20 Concrete (RMC)

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 02/10/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M20 Concrete (RMC)	M20	25/09/2018	02/10/2018	151.44 X 150.63 X 150.06	22811	8.167	414.0	18.5	18.5
2	M20 Concrete (RMC)	M20	25/09/2018	02/10/2018	149.44 X 149.45 X 149.55	22335	8.091	411.3	18.2	
3	M20 Concrete (RMC)	M20	25/09/2018	02/10/2018	149.04 X 149.84 X 150.53	22332	8.197	420.7	18.8	

Note:

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2018-09-27-01 **Date: 23/10/2018**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to roads and Drains at Ramachandrapura in ward No.10(Doddabommasandra), Vidyaranyapura Sub Division.

Agency : Sri.N.M Shivakumar, #7, 2nd Block, Juganahalli, Rajajinagara, Bangalore-560010

Customer's Reference : BBMP/EE/BTP/WO/126/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 27-09-18

Sample ID No : 2018-09-27-01 /02

Customer ID : M20 Concrete (RMC)

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 23/10/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M20 Concrete (RMC)	M20	25/09/2018	23/10/2018	151.29 X 151.49 X 151.47	22919	8.213	532.8	23.8	23.3
2	M20 Concrete (RMC)	M20	25/09/2018	23/10/2018	149.01 X 150.43 X 151.63	22416	8.567	519.0	22.8	
3	M20 Concrete (RMC)	M20	25/09/2018	23/10/2018	151.10 X 150.37 X 149.24	22721	8.284	526.9	23.5	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-09-27-01** **Date: 03/10/2018**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to roads and Drains at Ramachandrapura in ward No.10(Doddabommasandra), Vidyaranyapura Sub Division.

Agency : Sri.N.M Shivakumar, #7, 2nd Block, Juganahalli, Rajajinagara, Bangalore-560010

Customer's Reference : BBMP/EE/BTP/WO/126/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 27-09-18

Sample ID No : 2018-09-27-01 /01

Customer ID : M20 Concrete (RMC)

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 02/10/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M20 Concrete (RMC)	M20	25/09/2018	02/10/2018	150.91 X 151.06 X 150.98	22796	8.266	415.1	18.1	18.7
2	M20 Concrete (RMC)	M20	25/09/2018	02/10/2018	151.12 X 151.80 X 150.88	22939	8.182	425.7	19.0	
3	M20 Concrete (RMC)	M20	25/09/2018	02/10/2018	151.50 X 151.52 X 149.72	22955	8.105	436.4	19.0	

Note:

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Certificate No.: TC- 5548

TEST REPORT OF CEMENT CONCRETE CUBES

Format No: CP/TF/01

Lab ID : CP-2018-09-27-01

Date: 23/10/2018

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to roads and Drains at Ramachandrapura in ward No.10(Doddabommasandra), Vidyaranyapura Sub Division.

Agency : Sri.N.M Shivakumar, #7, 2nd Block, Juganahalli, Rajajinagara, Bangalore-560010

Customer's Reference : BBMP/EE/BTP/WO/126/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 27-09-18

Sample ID No : 2018-09-27-01 /02

Customer ID : M20 Concrete (RMC)

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 23/10/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M20 Concrete (RMC)	M20	25/09/2018	23/10/2018	149.52 X 151.39 X 149.98	22636	8.011	538.0	23.5	23.2
2	M20 Concrete (RMC)	M20	25/09/2018	23/10/2018	149.31 X 151.84 X 150.73	22672	8.541	519.6	22.9	
3	M20 Concrete (RMC)	M20	25/09/2018	23/10/2018	151.77 X 149.49 X 149.57	22689	8.395	520.9	23.1	

Note:

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 03/10/2018

Lab ID	:	CP-2018-09-27-01
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads and Drains at Ramachandrapura in ward No.10(Doddabommasandra), Vidyaranyapura Sub Division.
Agency	:	Sri.N.M Shivakumar, #7, 2nd Block, Juganahalli, Rajajinagara, Bangalore-560010
Customer's Reference	:	BBMP/EE/BTP/WO/126/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	27-09-18
Sample ID No	:	2018-09-27-01 /01
Customer ID	:	M20 Concrete (RMC)
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	02/10/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M20 Concrete (RMC)	M20	25/09/2018	02/10/2018	149.40 X 149.60 X 151.33	22351	8.588	410.1	18.2	18.6
2	M20 Concrete (RMC)	M20	25/09/2018	02/10/2018	151.26 X 150.94 X 151.78	22831	8.219	418.4	18.5	
3	M20 Concrete (RMC)	M20	25/09/2018	02/10/2018	150.98 X 149.27 X 149.86	22537	8.162	429.7	18.9	

Note:
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TEST REPORT OF CEMENT CONCRETE CUBES

Format No: CP/TF/01

Date: 23/10/2018

Lab ID	:	CP-2018-09-27-01
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads and Drains at Ramachandrapura in ward No.10(Doddabommasandra), Vidyaranyapura Sub Division.
Agency	:	Sri.N.M Shivakumar, #7, 2nd Block, Juganahalli, Rajajinagara, Bangalore-560010
Customer's Reference	:	BBMP/EE/BTP/WO/126/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	27-09-18
Sample ID No	:	2018-09-27-01 /02
Customer ID	:	M20 Concrete (RMC)
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	23/10/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M20 Concrete (RMC)	M20	25/09/2018	23/10/2018	149.18 X 149.63 X 150.03	22322	8.237	532.8	23.4	23.0
2	M20 Concrete (RMC)	M20	25/09/2018	23/10/2018	150.91 X 151.48 X 151.08	22861	8.286	500.6	22.0	
3	M20 Concrete (RMC)	M20	25/09/2018	23/10/2018	149.77 X 151.67 X 149.94	22716	8.404	529.1	23.5	

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2018-09-26-01** **Date: 01/10/2018**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads and Drains at Ramachandrapura in ward No.10(Doddabommasandra), Vidyaranyapura Sub Division.
Agency	:	Sri.N.M Shivakumar, #7, 2nd Block, Juganahalli, Rajajinagara, Bangalore-560010
Customer's Reference	:	BBMP/EE/BTP/WO/126/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	26-09-18
Sample ID No	:	2018-09-26-01 /01
Customer ID	:	PCC
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M15 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	01/10/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	24/09/2018	01/10/2018	149.68 X 150.44 X 150.34	22518	8.152	281.5	12.5	12.2
2	PCC	M15	24/09/2018	01/10/2018	150.47 X 150.34 X 150.55	22622	8.056	273.7	12.1	
3	PCC	M15	24/09/2018	01/10/2018	149.68 X 150.23 X 150.47	22486	8.195	267.6	11.9	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2018-09-26-01 **Date: 22/10/2018**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to roads and Drains at Ramachandrapura in ward No.10(Doddabommasandra), Vidyaranyapura Sub Division.

Agency : Sri.N.M Shivakumar, #7, 2nd Block, Juganahalli, Rajajinagara, Bangalore-560010

Customer's Reference : BBMP/EE/BTP/WO/126/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 26-09-18

Sample ID No : 2018-09-26-01 /02

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 22/10/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	24/09/2018	22/10/2018	149.86 X 150.47 X 150.36	22549	8.025	396.9	17.6	17.7
2	PCC	M15	24/09/2018	22/10/2018	151.76 X 150.44 X 150.33	22831	8.241	413.2	18.1	
3	PCC	M15	24/09/2018	22/10/2018	151.05 X 150.69 X 150.48	22762	8.185	394.2	17.3	

Note:

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-09-26-01**

Date: 01/10/2018

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to roads and Drains at Ramachandrapura in ward No.10(Doddabommasandra), Vidyaranyapura Sub Division.

Agency : Sri.N.M Shivakumar, #7, 2nd Block, Juganahalli, Rajajinagara, Bangalore-560010

Customer's Reference : BBMP/EE/BTP/WO/126/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 26-09-18

Sample ID No : 2018-09-26-01 /05

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 01/10/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	24/09/2018	01/10/2018	151.95 X 151.15 X 149.79	22968	8.309	522.5	12.1	12.1
2	PCC	M15	24/09/2018	01/10/2018	150.92 X 150.16 X 151.73	22663	8.103	515.3	11.8	
3	PCC	M15	24/09/2018	01/10/2018	150.47 X 149.25 X 151.31	22458	8.600	524.4	12.5	

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TEST REPORT OF CEMENT CONCRETE CUBES

Format No: CP/TF/01

Lab ID : CP-2018-09-26-01

Date: 22/10/2018

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to roads and Drains at Ramachandrapura in ward No.10(Doddabommasandra), Vidyaranyapura Sub Division.

Agency : Sri.N.M Shivakumar, #7, 2nd Block, Juganahalli, Rajajinagara, Bangalore-560010

Customer's Reference : BBMP/EE/BTP/WO/126/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 26-09-18

Sample ID No : 2018-09-26-01 /06

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 22/10/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	24/09/2018	22/10/2018	150.22 X 151.21 X 149.42	22715	8.409	420.7	18.5	18.6
2	PCC	M15	24/09/2018	22/10/2018	151.06 X 149.83 X 151.11	22633	8.441	428.0	18.9	
3	PCC	M15	24/09/2018	22/10/2018	149.14 X 150.32 X 149.26	22419	8.382	410.3	18.3	

Note:
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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-09-26-01** **Date: 01/10/2018**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to roads and Drains at Ramachandrapura in ward No.10(Doddabommasandra), Vidyaranyapura Sub Division.

Agency : Sri.N.M Shivakumar, #7, 2nd Block, Juganahalli, Rajajinagara, Bangalore-560010

Customer's Reference : BBMP/EE/BTP/WO/126/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 26-09-18

Sample ID No : 2018-09-26-01 /03

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 01/10/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	24/09/2018	01/10/2018	149.88 X 150.47 X 149.85	22552	8.250	277.4	12.3	11.9
2	PCC	M15	24/09/2018	01/10/2018	150.44 X 150.54 X 149.52	22647	8.212	258.0	11.4	
3	PCC	M15	24/09/2018	01/10/2018	150.44 X 150.24 X 150.11	22602	8.206	273.5	12.1	

Note:

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2018-09-26-01

Date: 22/10/2018

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to roads and Drains at Ramachandrapura in ward No.10(Doddabommasandra), Vidyaranyapura Sub Division.

Agency : Sri.N.M Shivakumar, #7, 2nd Block, Juganahalli, Rajajinagara, Bangalore-560010

Customer's Reference : BBMP/EE/BTP/WO/126/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 26-09-18

Sample ID No : 2018-09-26-01 /04

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 22/10/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	24/09/2018	22/10/2018	149.63 X 149.77 X 151.23	22410	8.065	416.8	18.6	18.1
2	PCC	M15	24/09/2018	22/10/2018	150.48 X 150.69 X 150.46	22676	8.189	396.8	17.5	
3	PCC	M15	24/09/2018	22/10/2018	150.44 X 150.37 X 150.97	22622	8.168	409.5	18.1	

Note:
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Format No: CP/TF/01

TEST RESULTS OF STEEL

Lab ID	:	**CP-2018-09-20-07** **Date: 22-09-18**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads and Drains at Ramachandrapura in ward No.10(Doddabommasandra), Vidyaranyapura Sub Division.
Agency	:	Sri.N.M Shivakumar, #7, 2nd Block, Juganahalli, Rajajinagara, Bangalore-560010
Customer's Reference	:	BBMP/EE/BTP/WO/126/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	20-09-18
Sample ID No	:	2018-09-20-07 /04
Sample Type	:	Sunvik
Reference to BIS codes	:	IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2012.
Date of test:	:	21-09-18

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
1	Sunvik	Fe500	8	0.392	560	562	20.0%	Satisfactory	Satisfactory
2	Sunvik	Fe500	12	0.881	583	690	19.5%	Satisfactory	Satisfactory
3	Sunvik	Fe500	16	1.582	592	702	19.5%	Satisfactory	Satisfactory

Note:

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